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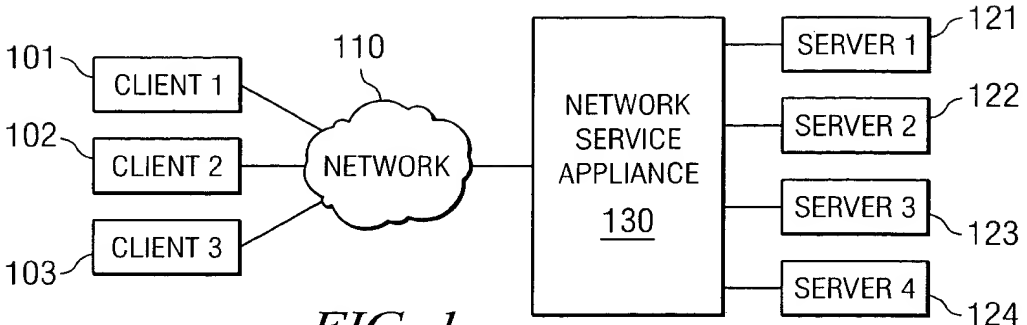

FIG. 1
(PRIOR ART)

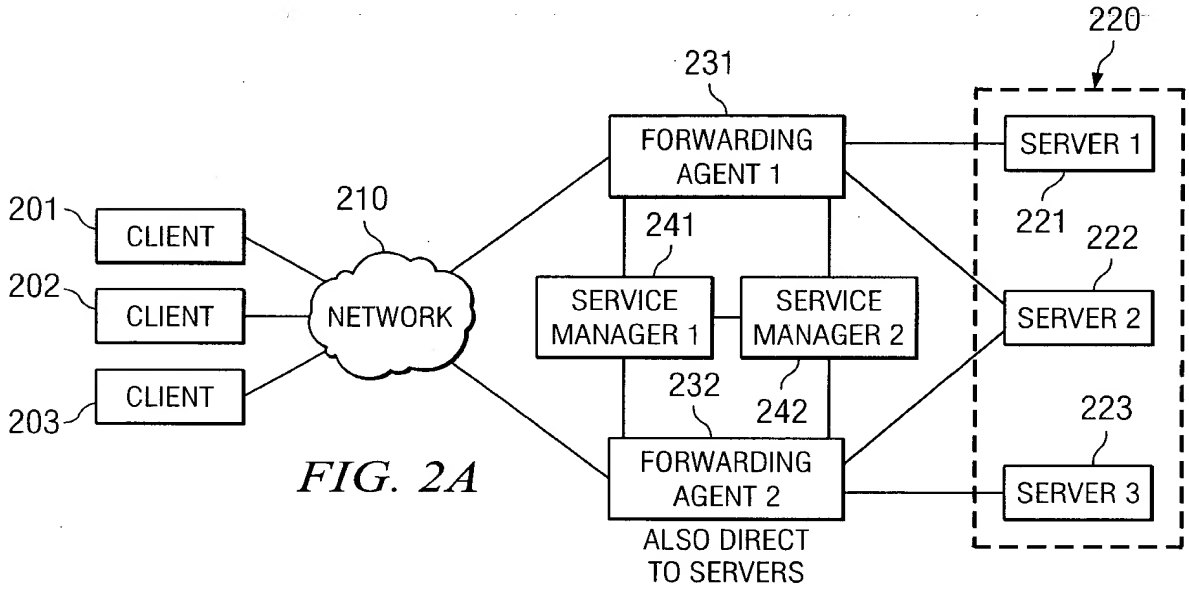

FIG. 2A

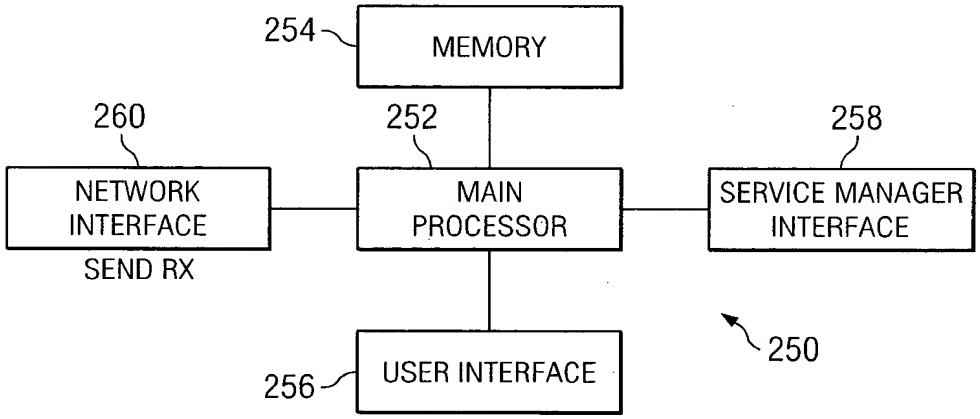

FIG. 2B

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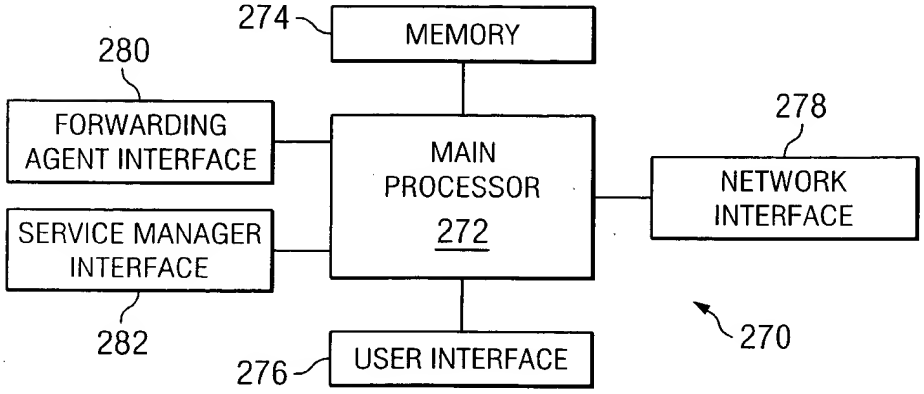

FIG. 2C

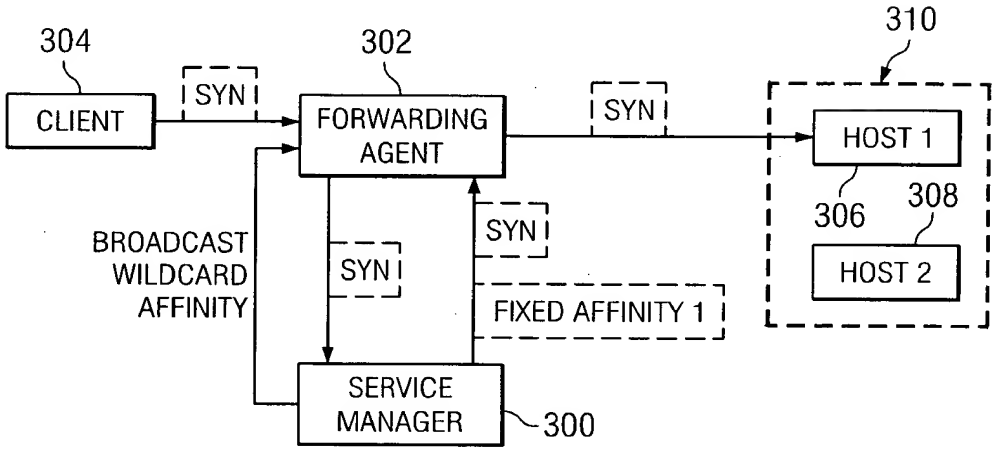

FIG. 3A

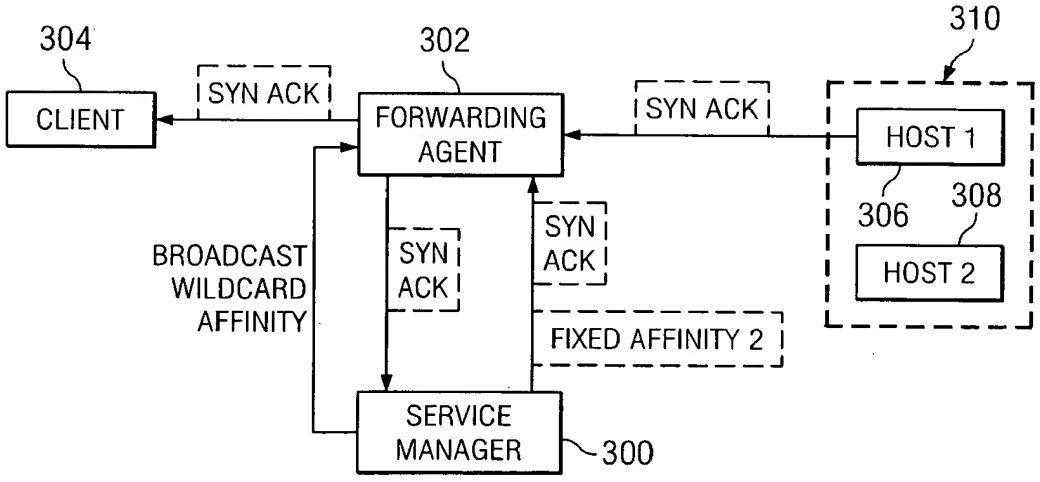

FIG. 3B

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PATENT & TRADEMARK OFFICE

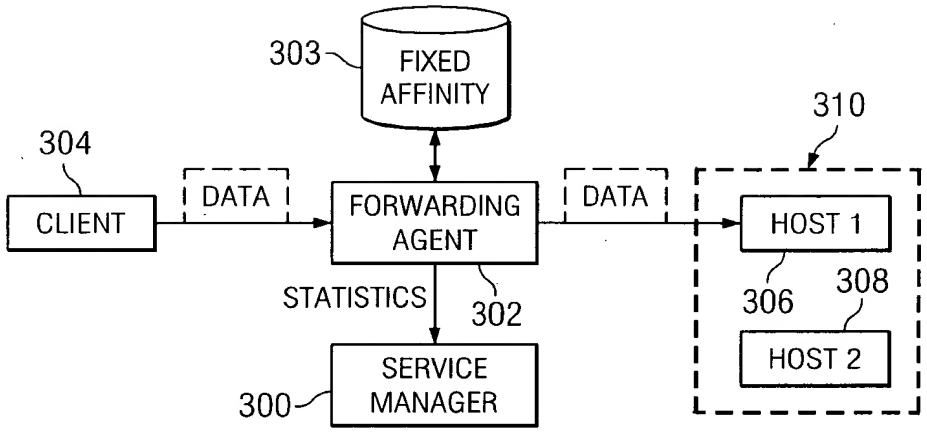

FIG. 3C

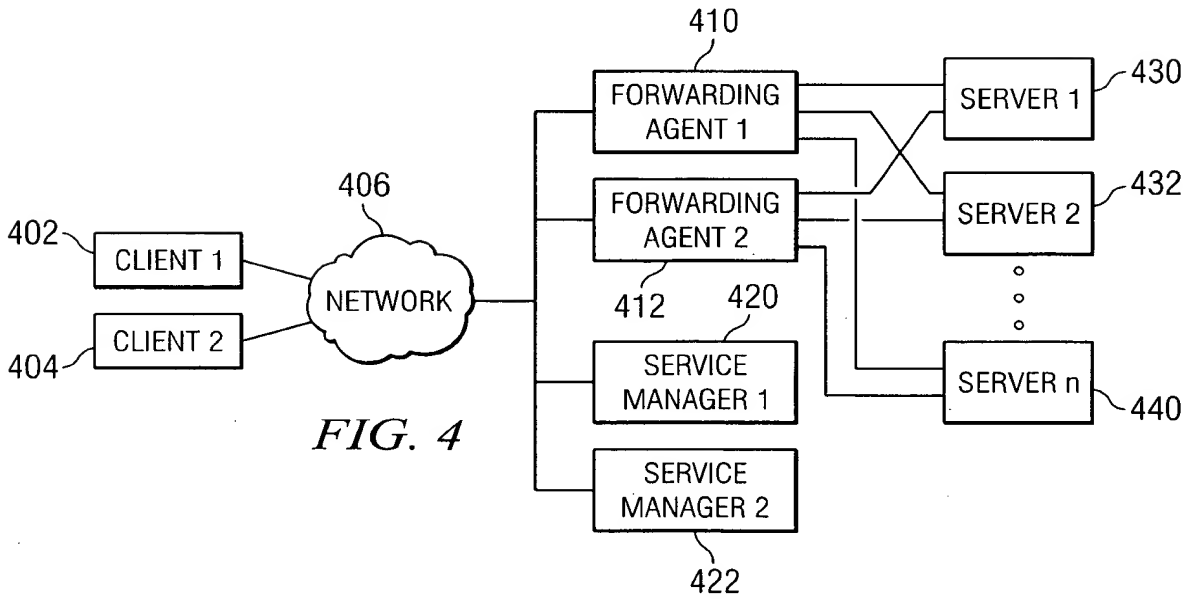

FIG. 4

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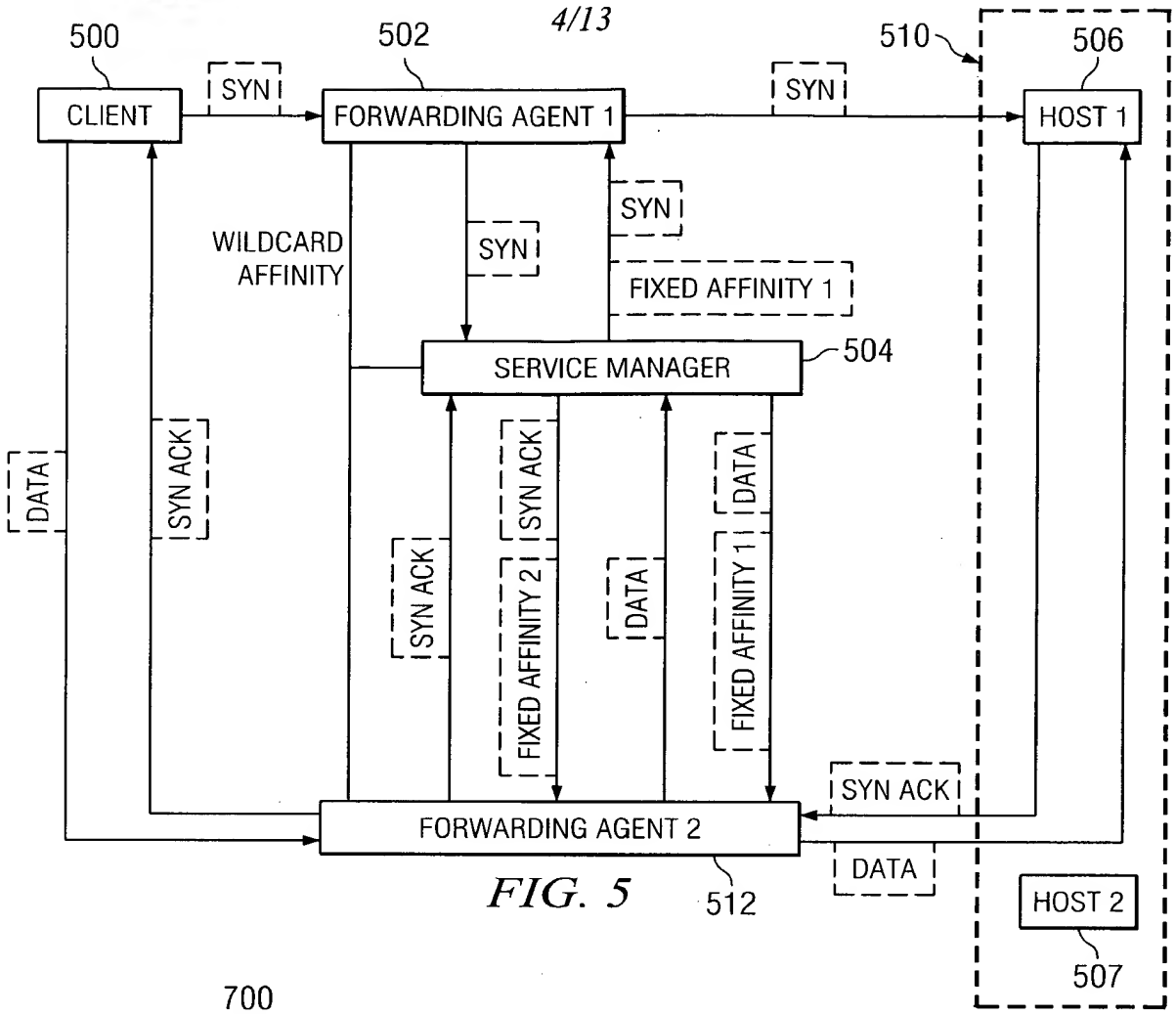

FIG. 5

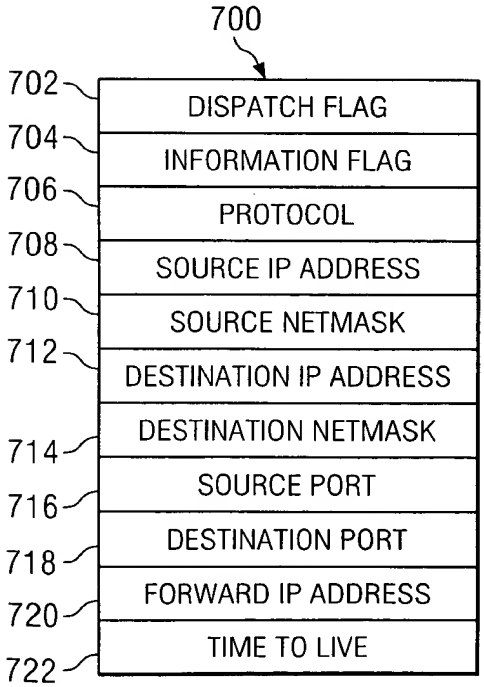

FIG. 7

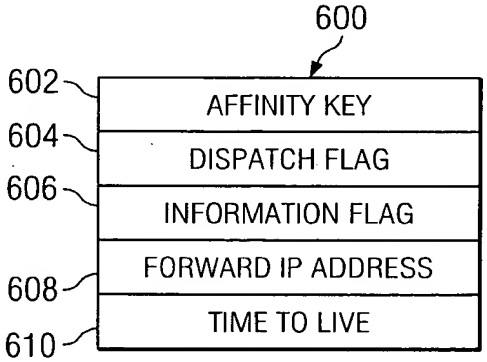

FIG. 6

OIPE JC12
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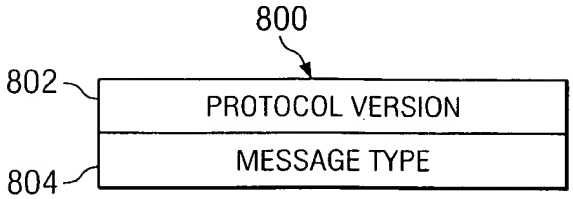

FIG. 8A

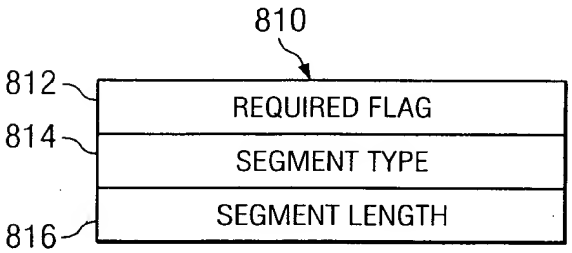

FIG. 8B

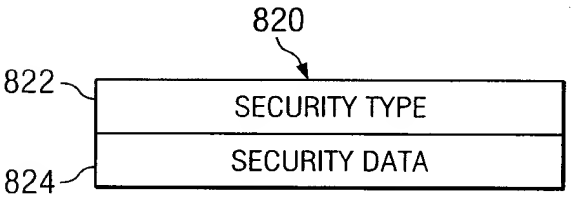

FIG. 8C

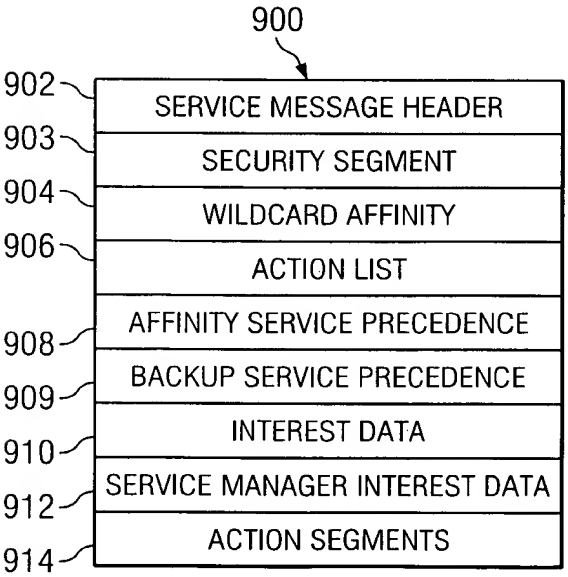

FIG. 9A

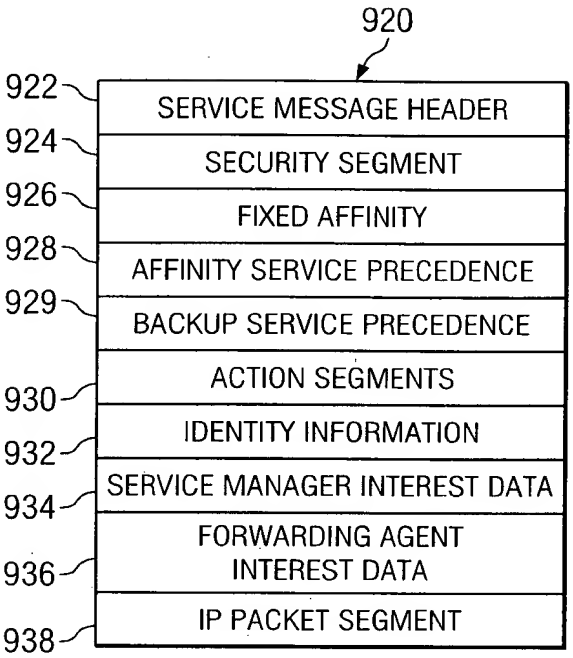

FIG. 9B

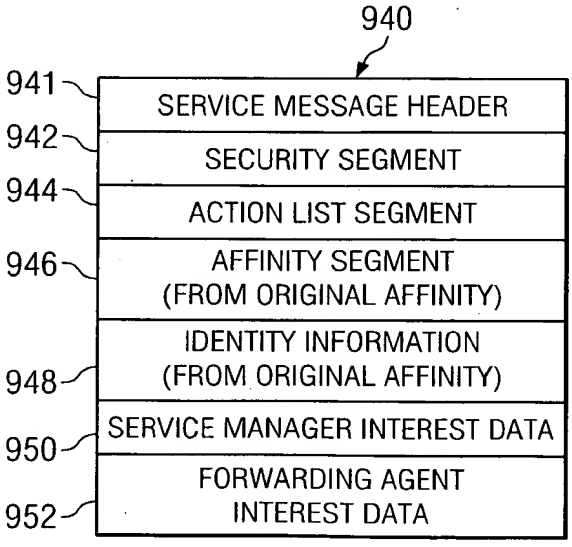

FIG. 9C

OIPE JC
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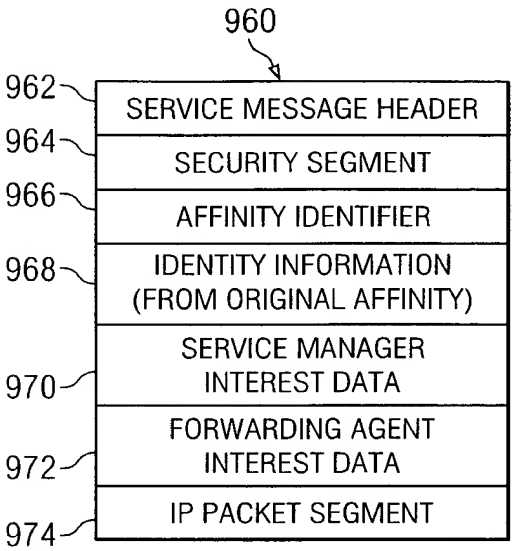

FIG. 9D

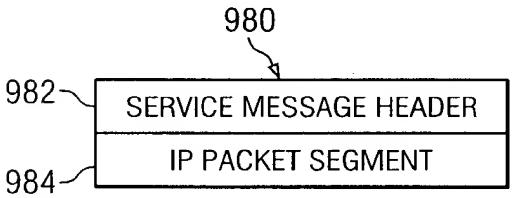

FIG. 9E

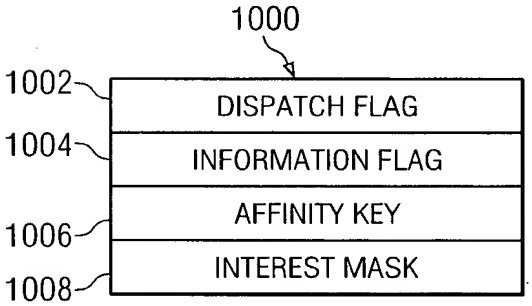

FIG. 10A

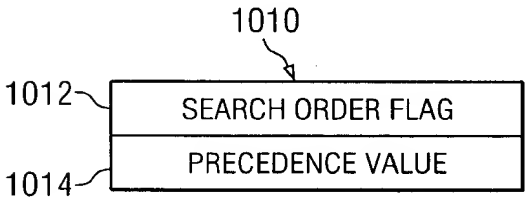

FIG. 10B

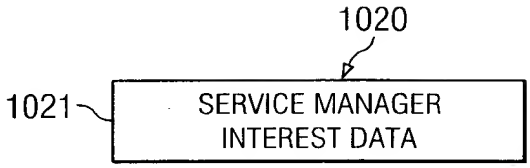

FIG. 10C

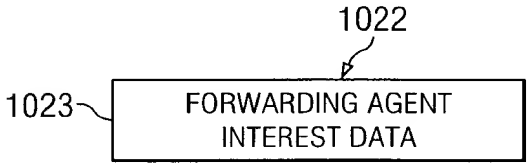

FIG. 10D

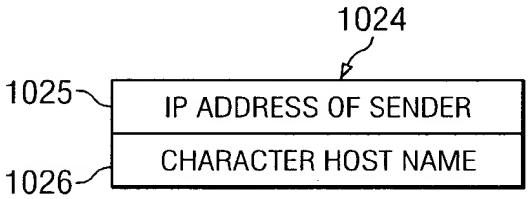

FIG. 10E

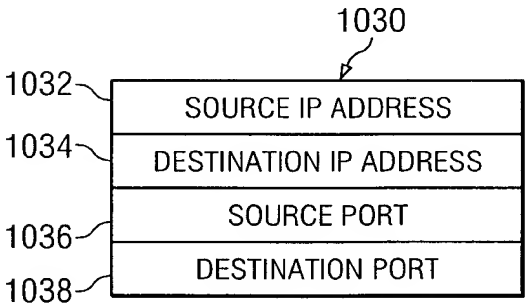

FIG. 10F

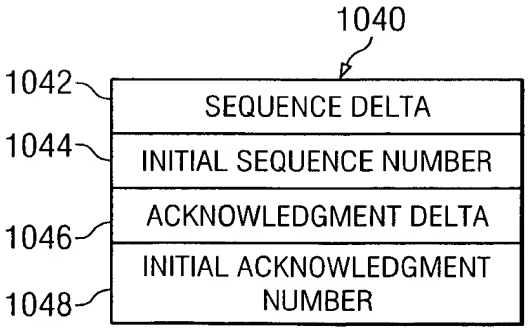

FIG. 10G

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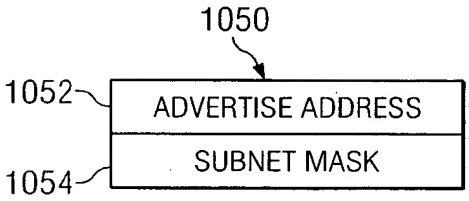

FIG. 10H

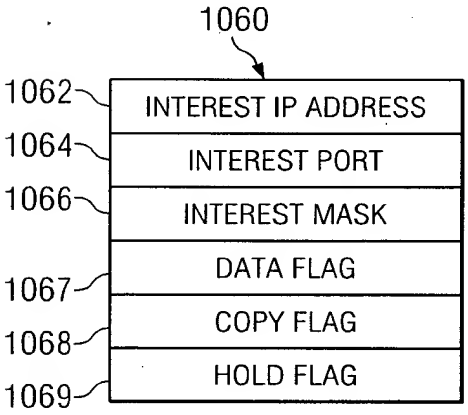

FIG. 10I

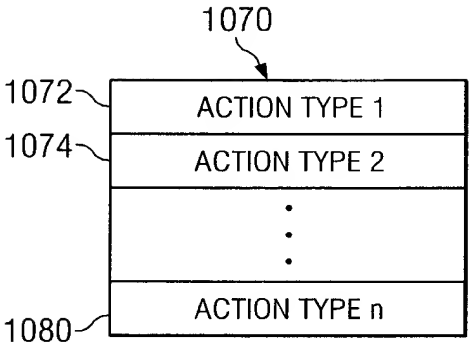

FIG. 10J

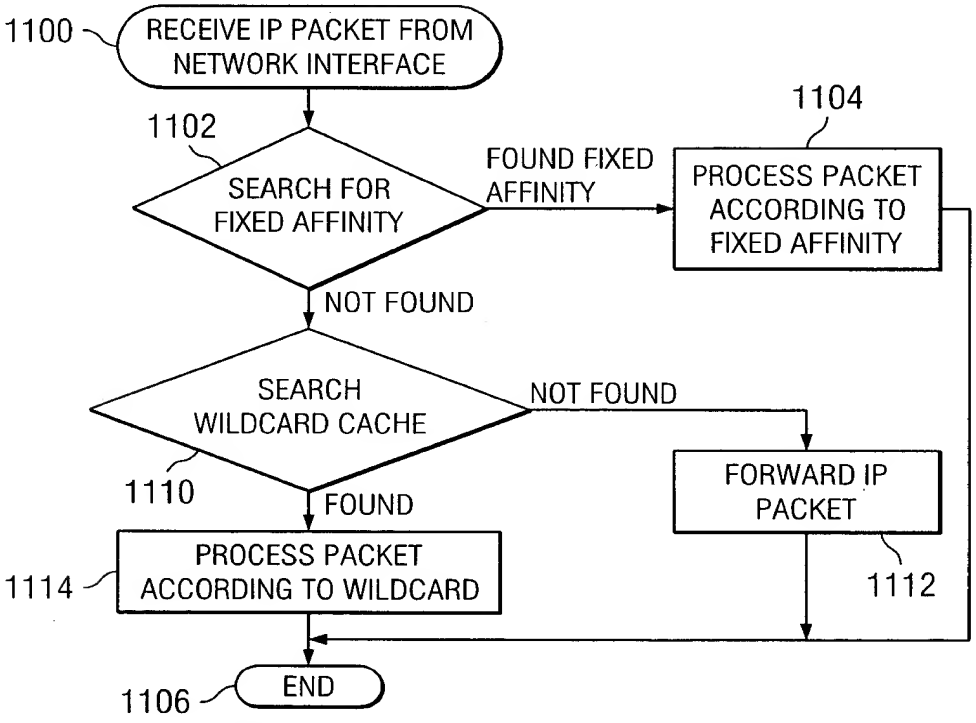

FIG. 11

OIPE
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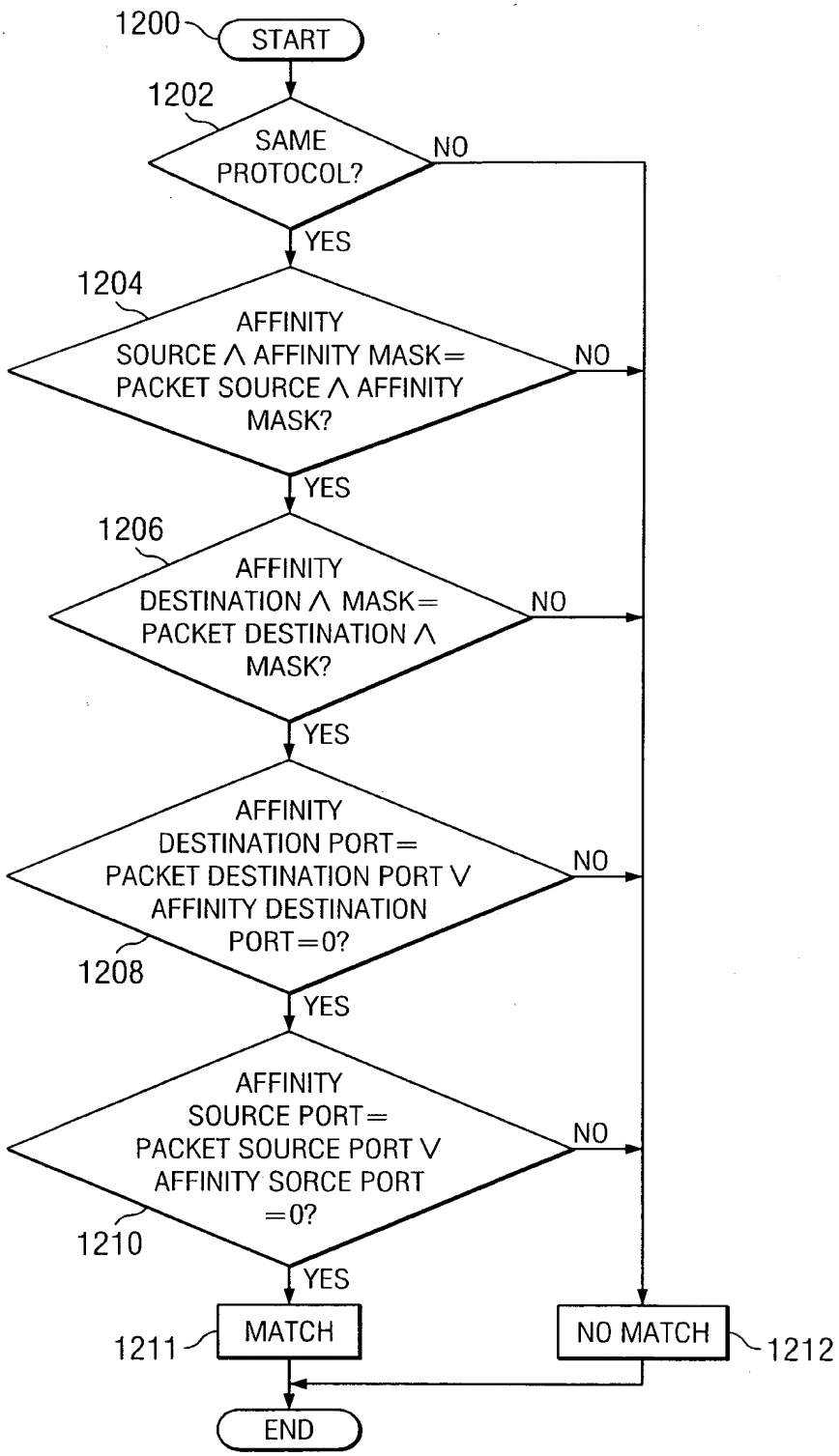

FIG. 12

AUG 2 4 2004

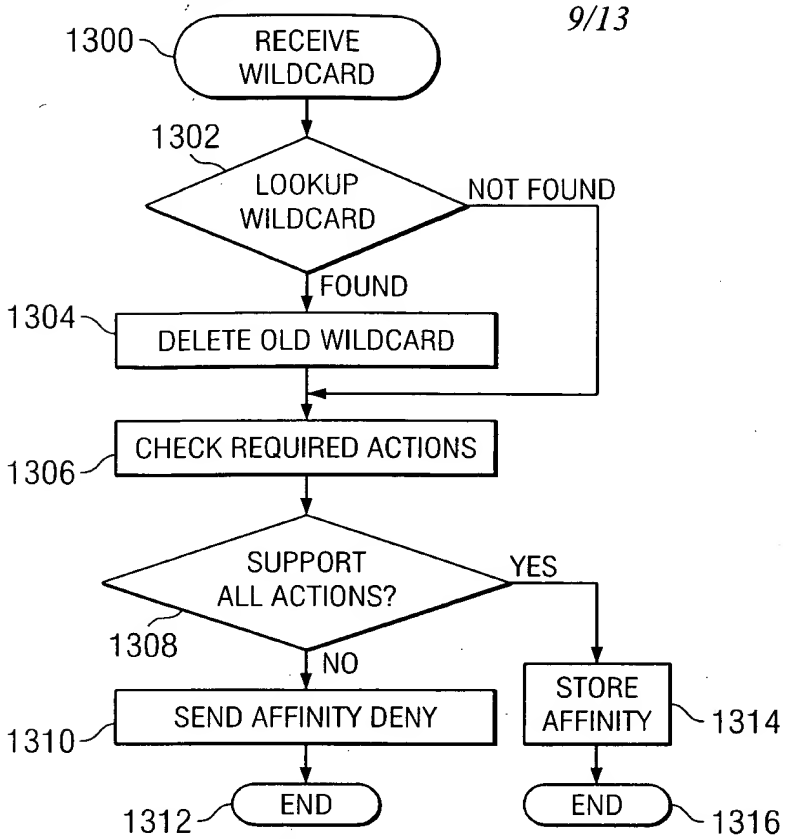

FIG. 13

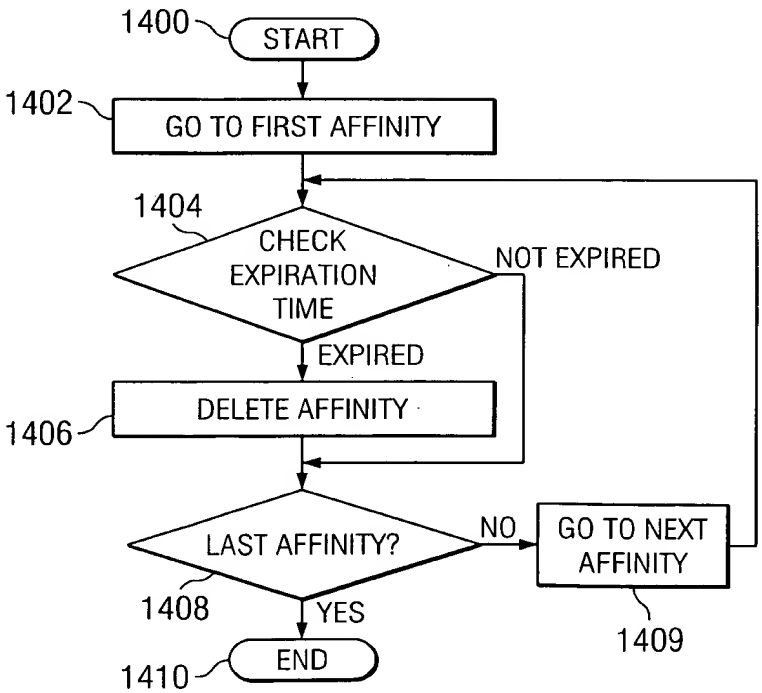

FIG. 14

OIPE JC
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PATENT & TRADEMARK OFFICE

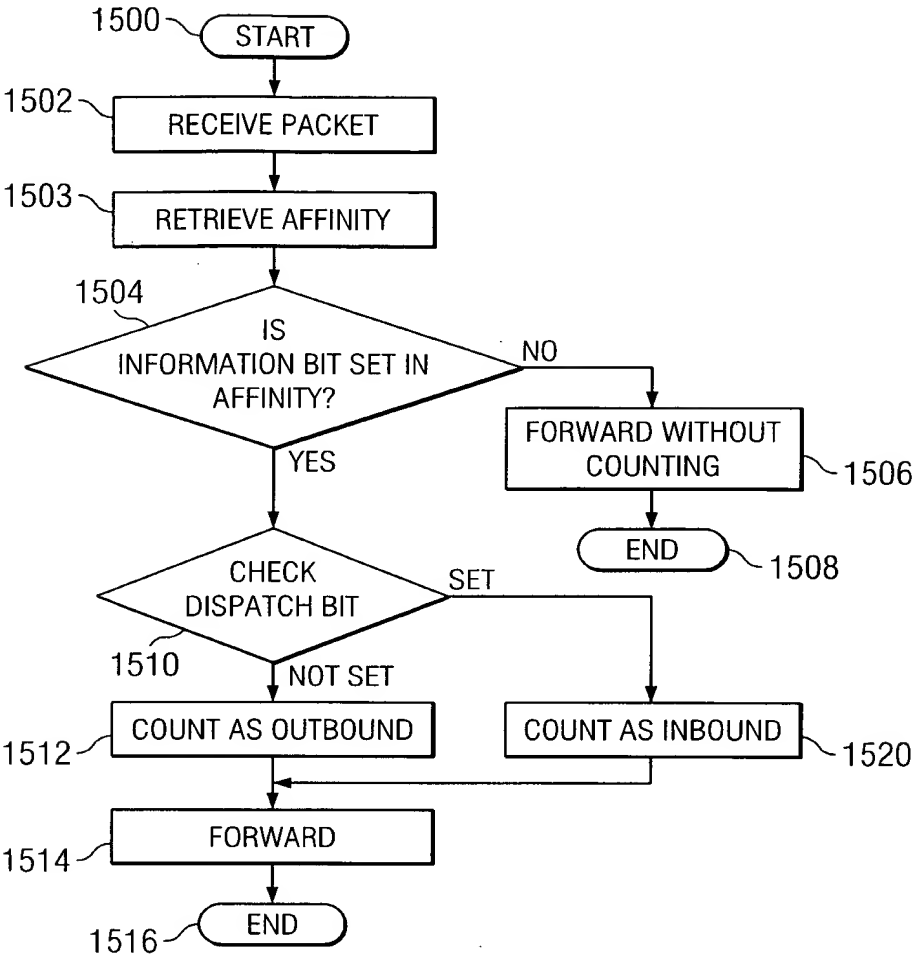

FIG. 15

FORWARDING ADDRESS	INFORMATION	DISPATCH	ACTION
X	0	X	DISPATCH
X	X	0	COUNT OUTBOUND
X	X	X	COUNT INBOUND; DISPATCH
0	X	X	COUNT; DROP
0	0	X	DROP

FIG. 16A

OIPE JC101
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NAT ADDRESS	INFORMATION	DISPATCH	ACTION
X	X	X	COUNT INBOUND
X	X	0	COUNT OUTBOUND
X	0	—	DO NOT COUNT

FIG. 16B

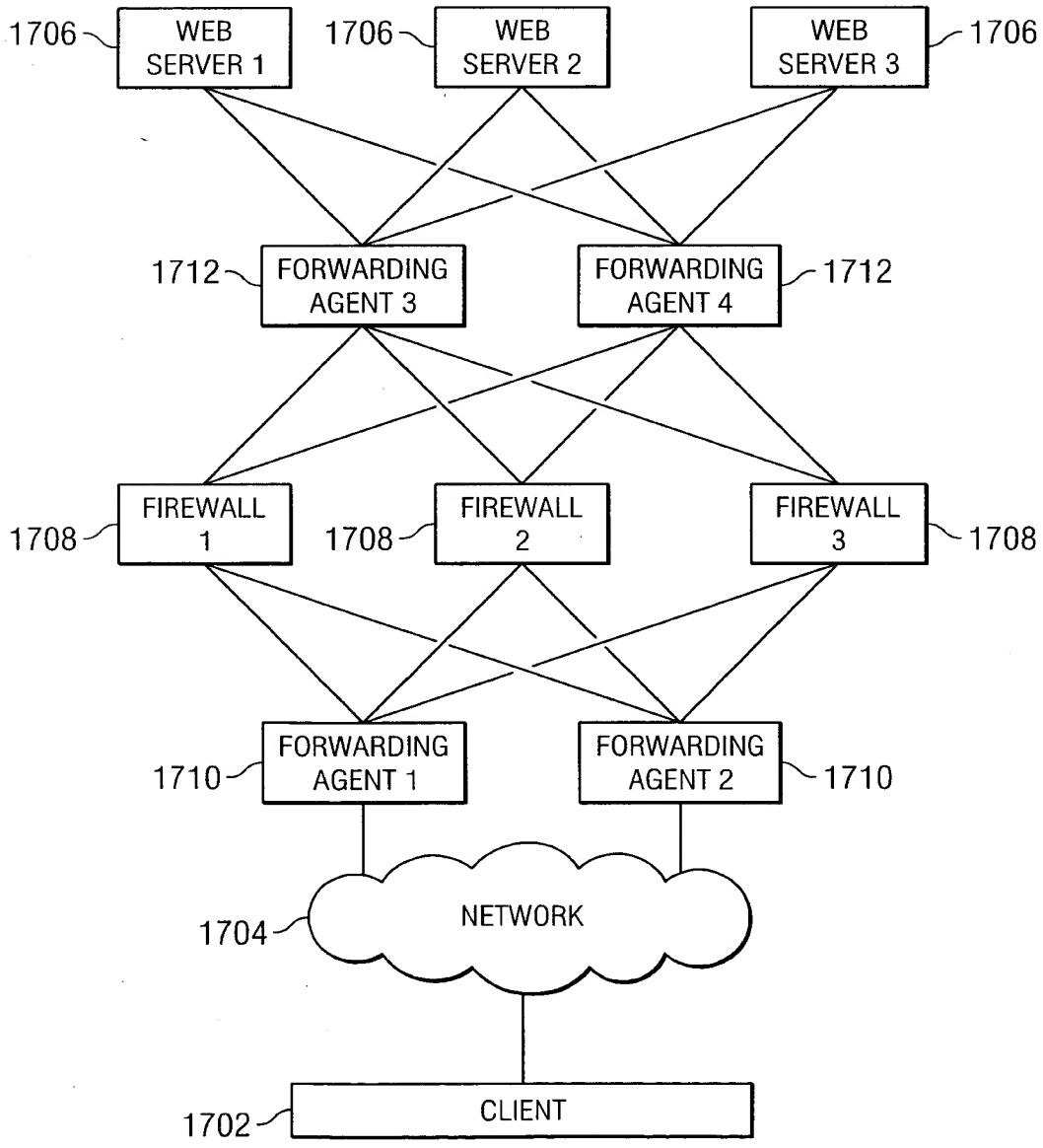

FIG. 17

OIPE JC181
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TIER 1 FORWARDING AGENTS
FORWARDING AGENT 1
FORWARDING AGENT 2

FIG. 18A

TIER 2 FORWARDING AGENTS
FORWARDING AGENT 3
FORWARDING AGENT 4

FIG. 18B

TIER 1 APPLIANCES
FIREWALL 1
FIREWALL 2
FIREWALL 3

FIG. 18C

TIER 2 APPLIANCES
SERVER 1
SERVER 2
SERVER 3

FIG. 18D

PROTOCOL
CLIENT IP ADDRESS
CLIENT PORT
SERVER IP ADDRESS
SERVER PORT
TIER 1 SERVER
. . .
TIER N SERVER

FIG. 18E

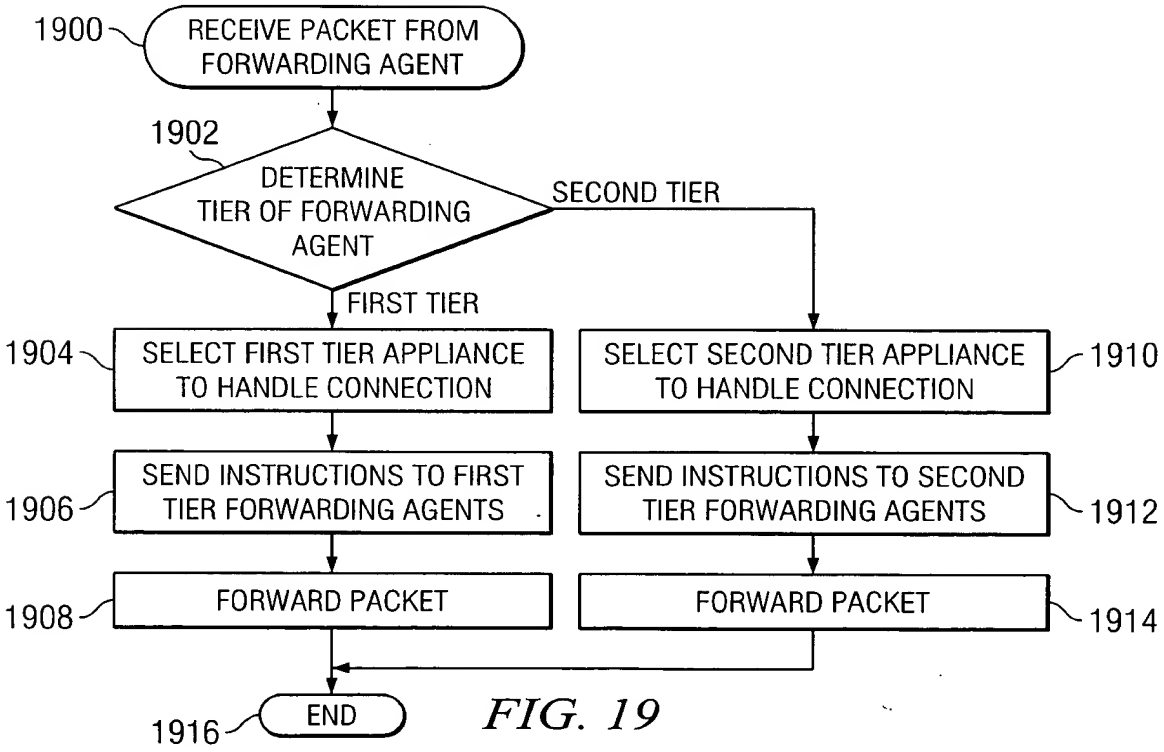

FIG. 19

OIPE JC181
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PATENT & TRADEMARK OFFICE

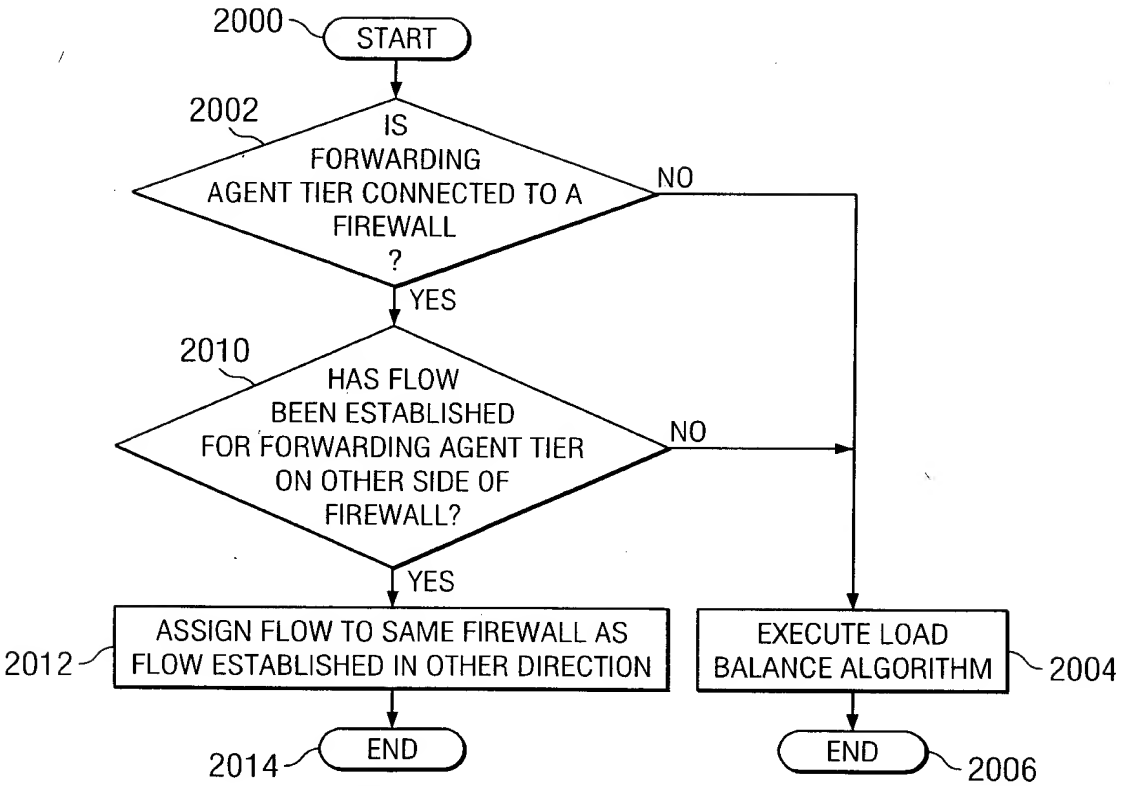

FIG. 20